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09/268542

Mar 4, 1999

Paper No. 13

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US006951894B1

13

(12) **United States Patent**
Nicolson et al.(10) Patent No.: **US 6,951,894 B1**
(45) Date of Patent: ***Oct. 4, 2005**(54) **EXTENDED WEAR OPHTHALMIC LENS**

(75) Inventors: **Paul Clement Nicolson, Dunwoody, GA (US); Richard Carlton Baron, Alpharetta, GA (US); Peter Chabreck, Basel (CH); John Court, Ultimo (AU); Angelika Domschke, Lörrach (DE); Hans Jörg Griesser, The Patch (AU); Arthur Ho, Randwick (AU); Jens Höpken, Lörrach (CH); Bronwyn Glenice Laycock, Heidelberg Heights (AU); Qin Liu, Duluth, GA (US); Dieter Lohmann, Munchestein (CH); Gordon Francis Meijs, Murrumbidgee (AU); Eric Papaspiliotopoulos, Paddington (AU); Judy Smith Riffe, Blacksburg, VA (US); Klaus Schindhelm, Cherrybrook (AU); Deborah Sweeney, Roseville (AU); Wilson Leonard Terry, Jr., Alpharetta, GA (US); Jürgen Vogt, Fribourg (CH); Lynn Cook Winterton, Alpharetta, GA (US)**

(73) Assignee: **CIBA Vision Corporation, Duluth, GA (US)**

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **09/640,526**

(22) Filed: **Aug. 17, 2000**

Related U.S. Application Data

(63) Continuation of application No. 09/262,542, filed on Mar. 4, 1999, now abandoned, which is a continuation of application No. 09/108,714, filed on Jul. 1, 1998, now Pat. No. 5,965,631, which is a division of application No. 08/662,452, filed on Jul. 17, 1996, now Pat. No. 5,849,811, which is a division of application No. 08/569,816, filed on Dec. 8, 1995, now Pat. No. 5,760,100, which is a continuation-in-part of application No. 08/301,166, filed on Sep. 6, 1994, now abandoned.

(30) **Foreign Application Priority Data**

Apr. 4, 1995 (DE) 95810221
May 19, 1995 (CH) 1496/95

(51) Int. Cl.⁷ **C08K 3/00**

(52) U.S. Cl. **523/107; 523/106; 523/108**

(58) Field of Search **523/106, 107**

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(57)

ABSTRACT**DEC 22 2005**

An ophthalmic lens suited for extended-wear periods of at least one day on the eye without a clinically significant amount of corneal swelling and with a balance of oxygen permeability and ion or water permeability, with the ion or water permeability being sufficient to provide good on-eye movement, such that a good tear exchange occurs between the lens and the eye. A preferred lens is a copolymerization product of a oxypem macromer and an ionopem monomer. The invention encompasses extended wear contact lenses, which include a core having oxygen transmission and ion transmission pathways extending from the inner surface to the outer surface.

84 Claims, No Drawings

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